**Pocket Notebook**
**PN 22-12-22 (1922-1924)**

This notebook dates from December 1922 - January 1924. The pocket notebook contains notes by Thomas A. Edison relating to experiments on phonograph records, phonograph cabinets, rubber, blank presses and varnish. There are also notes about cutting record production costs, phonograph record sales and advertising ideas. The notebook was originally found in Thomas A. Edison's desk at Glenmont.

EDIS 223915

X3346
1922
1923

oh

oh

$17

Reg Mix with 30 Mesh oversize
one Mill grinds 11 lbs per
minute 99% passing 180
mesh

With Dallys 90 Rosin 10
BS. grinds with 30
Mesh 6 oversize 5 Cx then
92% thru 180 Mesh

both on Vertical Cooled Tube
Mill —

Dallys blank is 9 Rosin
1 BS. the BS is not
solid like old BS but
so you can share your
findings on it —

Old Mix 12% binder
Dallas Mix 10.8%

Papers guilside to put in
Mould to stop wax
Mordant + paste
stocking will weigh
about 3½ gms
128 to lb at 96 mils
lb - does Grand 1 mil
per record.

By adopting Daily blank following
Expenses will be cut out each
on daily reporting of
27000 records
Alcohol $132.66
Steam 51 58
Water 6 98
460 KW Electricity 15 87
Labor 14 men
168 hours at 45c 75 60
$282.61 saved
Equipment made obsolete cost
55000 Repeat 10% saved 18.35
Grand Total $300.96

Dec 25 1922
We get 198 records 2 coats
both sides per gal Varnish

| | |
|---|---|
| Rosin | 1.82 |
| Alcohol | .20 |
| Para | .05 |
| Sandrag | .01 |
| 6/4-Hexa | .23 |
| Negrosin | .01 |
| Shellac | .08 |
| Phenol | .06 |
| | 2.46 gallon |

1.242 Cents per record

Varnish Labor baker inspect.
2024. Mils

1.24 Cents Roos

198 | 2460 mils | 12+
1980
480
396
840

Cost materials blank DEC 22 1922

| | |
|---|---|
| Woodflour | .0114 |
| Chalk | .0036 |
| Rosin | .0028 |
| Alcohol | .0052 |
| Gasoline | .0024 |
| Steam | .0093 |
| Water | .0054 |
| Electricity | .0038 |
| Supplies | .0025 |
| | 4.64 Cents |

for Blank pressed

There is 19 grams of Naphthalene in 100 cc Gasolene. This is used w Chloro Rubber on Rolls —

4.5 of this gives 900 mg/ Naphthalene for 10 grams Rubber + 4 MgO or 6½ % Nap

Try light Calcined MgO in place of Shino + get result as Varnish work Hold + pecut + time test.

Solvent which make good films Chlorinated Rubber

Perchlorethylene
Trichloroethylene Ether is better than per — best of all Solvents Bengal Most practical at present

Color

Slice 1/8 inch Milk wash into water with Hcl or sal that prevents Coagulation Stirring all the time Then 150 mesh screen used To seperate the milk from debris of the latex Then pour into dgulated

Milk Sol some Benzol
agitate till the Benzol
has dissolved all the
Rean + rubber let it
seperate at top +
draw off the Benzol

distil off Benzol till
Rubber syrup is
Vac + low temp -

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Shrinkage on sheets
of Chlorinated rubber
with 4 Mgs 10 Rubber
4 gasolene calender
rolls Naphthalene
to 1½ inches on 10"
If 5 Mgs its very
little - The heating
& taps shrinkage
will be more than in proportion

300 Tons at SB

| | |
|---|---|
| Inorganic | 3.25 |
| $Zn_2$ | 3 45 |
| $Ni$ | 7 58 |
| $Cu$ | 21 13 |
| $CaO$ - | 7 68 |
| | 43 29 |

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2 inventions
Dead Alp - Andes 2 peaks
Slate

2nd Rotary shaving run by
Motor, Elec pen pipe -

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get copy letter Leach
to fabrics who read Paper
Report & Have on hand
to give each new fabs
as they come here

Harvey J Scones
Fairview Farm
Sidell Illinois

the Corn man

For operating Swanson
Illinois not legume
Salt use Alkaline
brick Crucible
MgO CaO, Will
not slag & think
by

Easton
Reading
Harrisburg
Williamsport
Elmira
Hornell
Olean
Jamestown
Chautauqua
Erie
Meadville
Mercer
Akron
Cleveland
Sandusky
Norwalk
Milan
Toledo
Detroit,

General Route

1000 miles approx

COLUMBIA
Records

24 to 28" dia as a rep - good hollow sheen black grain very good asbt. Wofford also

Aug 15 1923

After ford call assembled plane off nearly all of outside Excess asbestos by a fly cutter or work at high speed to aid Centrifugation

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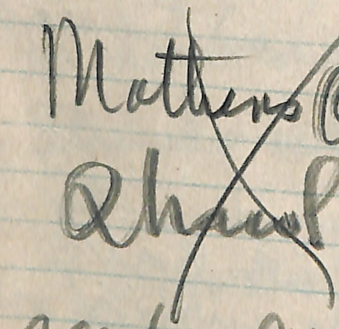
Look out for hard enough free surface on Nickel sheet to take care of the gassing when Charging at 10 amps + that the surface is free from mix so as not to disturb it

Think should widen Ni sheet

Quit & left Behind me

Try different Cabinet Woods with Caustic and Varnish then with Carbon disulfide B make Viscose then with acid to get a Viscose surface



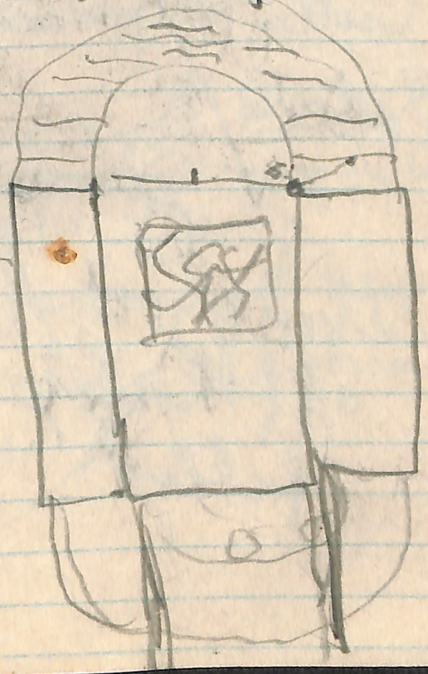

see beg Mfg Records get Addrs & agn Cos

Book of
Songs the whole
World Sings
D Appleton & Co

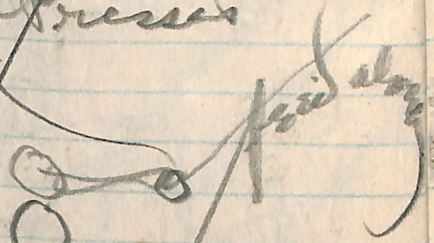
Automatic
with 120 Rec
Same mechanism
as our Varsity
Buy for plant

See E F Gennert
Collection Lamps
Jackets for Ford

Address Manhattan
Brass Co NY
Size of room $1000
Will sell for $1900-
Report to Ford



get lot Thistle leaves
Milkweed &
Experiment -
get a sheet of
Rubber - say
1/16 3×3. several
sheets -
Cutter + Presses
Rotate



Strip 1st - wash
off Latex &
filter

When the Swallows
homeward fly
My Pretty Pretty
Primrose.
Nancy Hill
See of Blossom on the
Rye is still in
Catalogue -
Consider 3 Coats on
Records - now in home
test upto 8 Coats -
Try Reprints of new
Loading Machine
also B

Try ether to dissolve
Vulcanite Rubber for
Chloro Rubber

Send Mrd Wadsworth
about 50 of the 300
good seedlings in
them on Thursday
50 More

Guayule Plant. Dry
Weight of individual plants
3.638 Lbs -
average per plant .46 Lb
Min weight .23
Max " .73

1 acre 1 ft apart
20 000 Lbs 10 Tons

---

Chlorinated Rubber
dissolved in
Trichloroethylene
after 6 weeks one
big glass plate only
slight brittle free, shrinks
Perchloroethylene
sticks to plate, Brittle

Carbon disulfide
Sticks to plate.
Somewhat flex
must Extra Double

Carbon tetrachloride
Sticks to plate
fairly flexible

Benzol free
of pitch +
fairly flexible

Best of all

Following Charles
left me to do

Parsons ~~Farmer~~ ~~Turner~~
over to me

P Burns ~~attorney~~ to
renting Newark Corp.
Allen Coke on
~~Mining~~ Exploration
Co

Dunlap only Knows
about Consolidation
at Stake

Robeson ~~selling~~ data
about ~~Rep.~~ Vanderwerd
Paulsen ~

Lee ~~Voelker~~

Puffer Besuve + Examine
Rebuild Cornelius Records
So no dealer will be using
an old record

Where is Stewart

Hayes - Use
One of Submarine
Condensers Gasoline
Carb Telltone +
2 tubes + My Reg
turned for me
personally to
listen to Music
Piano & perhaps
Records -

Consider Electric propulsion
on Blank trucks -

Yale + Towne makes
Electric Shop truck
do they use our battery

See the Swenson
Walker Condenser
Crystalline - 1st of its
kind -

See if Can Cut
out a tension
at Scranton Steel
Car Job -

See if Can Cut
out motors for Grant

Cut off some of
Silliman +
put it in Manhatta
+ possibly Albany

See Neill

Rubber Extraction
Guayule - alcohol
1st - Resins & Chlorophyl
2nd acetone
3rd Benzol - Rubber

Neilh

Time tests -

No 1 Started Feby
96. 94 88.88 84.79 82.7 80.4
62 - 60.8 Regular output

No 2 - Same Reg Output
96% 93 86 79.8%

No 3. Reg output better
waxed -
100% 100%

50 Reprints from Moore

Dall[illegible] -

No 24 is latest + 25 c/c louder Recorder, which is OK for Violin recording Blubs Piano at 12 ft Sept 10 1923. got 3

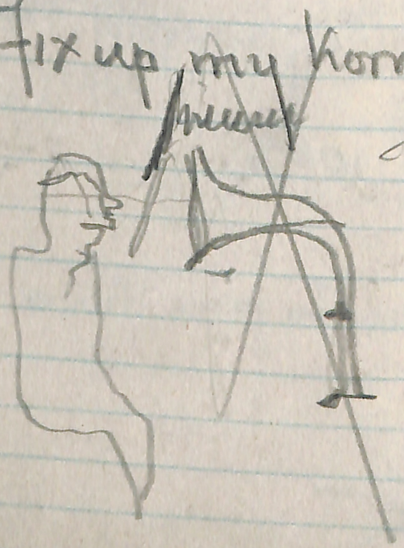
Ask for method Chamfer of Paraffining Matrix by Rouge = How many points before paraffining pull out

Hayes make a Repeater for 125 ft horn to see how records sound for Volume

Varnishing with Brush - drying in Celluloid under

| | | |
|---|---|---|
| 1st Coat | 10 mm | |
| 2 " | 17 " | |
| 3rd " | 20 | |
| | 47 | |

Fix up my horn

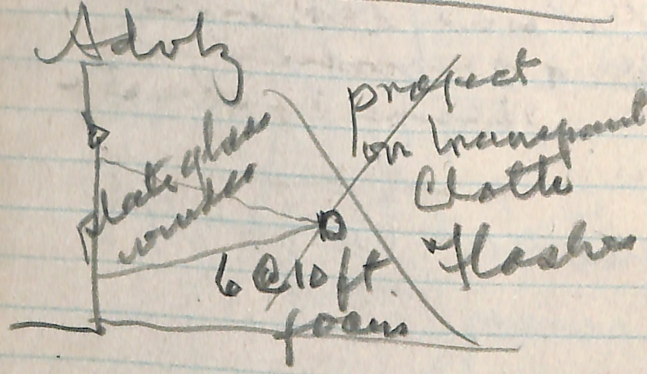


Same but 12" fan 7½ ft away

| | | |
|---|---|---|
| 1st Coat | 7 mm | |
| 2 " | 6 | |
| 3 " | 13 mm | |
| | 30 | |

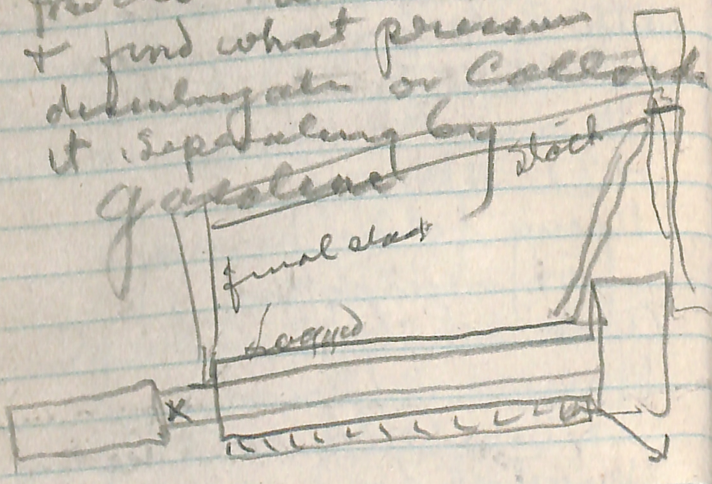
Daily time tests rated each month.

Reg 2 coat - 1st rating 100% for Ok -
3 " "
4 " "
5 " "
6 " "
7 " "
8 " "
9 " "

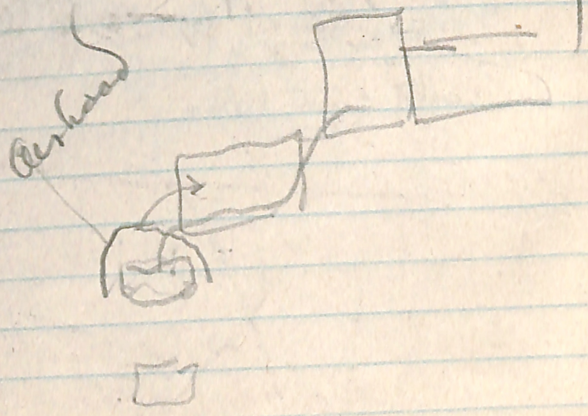



Work up lecture idea with Vick E + artist to arrange + Lecture Exhibiting on Moving Pic Hour each 10 am till 11.30 am - Using films showing Cinematographs also Exhibit School Homes in Summer to Parents - all by invitation - Several Lectures Have programs + Name of dealer on it.

for Watt - Put Clinkers
+ find what pressure
drop along ata or Coal ash
it Sep drop along by
grate bars




x outside 200 -
should find temp
of Kiln first all along




New Roller bearings at
given Wambat - for
Ball Mills -

— also Lag Kiln itself

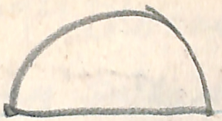
H E got cast iron Ludwig
Main Welding for
why not Weld
Zinc at McChesney
See Electrical Work
Sept 22 1923

Hardy re Kiln Pats
died ~~Expert~~ patent
Lining of asbestos

Ask Beattie how many will be ship by 1st Oct. photos

Real rubber on Ford tires

| | | Case + Tube |
|---|---|---|
| 30×3 Cl fabric | | 5.21 lb |
| 30×3½ | " | 6.99 |
| 32×4½ SS Cord | | 16.18 |
| 33×5 | " | 24.34 |
| 7.30 $ San Cushion | | 22.63 Balloon |
| 32×3½ Reg HB PO Solid | | Case 14.23 |



a diving Sign

Da-Lite Electric Display Co
116 North Erie St
Toledo

about 13X
M. Davis agt — 20.

1000 lot 706 Oranges
$9.75 — Weight of Celluloid 1½ oz

Schemes for advertising direct Daylite device.

2. Band of Photo slides seen at Chem Show at Exhibit of Nickel Co

3 = 4 ft focus Kodak Moving picture ½ film — in closet

4 dittos on bell board projector in iron box attic

5. Boiler Powders —

Oct 1923 Storage battery life

Taking sales + the time same A Type Calls returned, Industrial trucks + Tractors show life 4½ to 6 years

Vehicle trucks 5 to 6 yrs
Storage Bat Locomotives 5 years

G type Industrial Truck 3½ yrs
Vehicle Truck 3 yrs 10 mos
Locomotives 3 yrs 1½ "

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See Free Room in Restmate at head of machinery make pull outs

---

Lay Out Daily Mixer plant 100 M day + place 1st unit

Have we introduced
new blank presses
new steam scheme as
on present presses

Parcel post

50 Mile Zone

~~1 lb 5 cents~~

1 lb 5 cents
1 cent lb for each extra
lb –

50 to 150 – 1 lb 5 cents
as just same quer

# Blank Press Schedule

Bring up & open to
pressure of 500 lbs
–
Put on steam full
& blow them for 25
seconds – then close
Valve hold for 4½
min Cut off steam
~~Put~~ Open up vent
& Exhaust Put on
water Cool 7
minutes –

Started about
sept 24 1923

" " "

Chips house organ
Foundation Lumber Co
Newark has many
funny paragraphs

figure out profits of dealer on Record $300. year purchases up to $2000. Then figure out Mailing Cost — ditto Costs of Advertising by the Elevopleau — $15 — Machine + Parlor Rentals —

Very small town Salesgirls show in Pictorial Store

take orders arrange with dealer adjacent to town to allow Commission

girls Salesman try one —

Benny Cut glaze of grinding wheel by having smaller wheel —

Have record sales of all Peters lists made to see what sales they made in Each year in Columns so can see what they can afford on Postage + my new advertising

115 average

| Dealer sells | 345 — 25 month | Gross | 1152 |
|---|---|---|---|
| $ 575 | 41 | " | 1900 |
| 805 | 58 | | 2668 |
| 1150 | 83 | | 3814 |
| 1475 | 108 | | 4965 |
| 1725 | 125 | | 5760 |

Luyendyke Albany Abbey dealers see how many Cards sent out. Then Look at List of 400,000 along B'dway to check

Stevens Iris if they Compare
& we accept a Terms of
Iris + do it on our three
methods interfering
they we'll copyright
+ give the 3 a 1/2 cent
Reynolds Oct 1 1923

film plates
Surface Speed 5 ft
hocks. 1 inch ach minute
75 gmp per square
foot -
Ratio of small Meshes
to Large Meshes
1 To 60 -

Area 116 of 001 Copper
to 22 sq ft

Milkweeds

Asclepias / General name

Apocynum / General name — Indian Hemp

Whalen Why cant
we ship Extra Springs
for photo in Cup
so dealers dont
have to put a
spring in Cup
2

Central ~~Stand~~ dealer has 4 farm towns in area around him + 400 to 1000 — Signs up local store to have demonstrator + supplements + take orders at 10% or less from what he hands on order Edison rents Horn jobber to Reg dealer Machine + 20 Records at $3. Monthly — no rent or investment for small town man Dealer pays $12. month rent + has the 4 men working without further Expense Average sale at $162. 40 off + 10% off list gives small town dealer nets 30% on sales Small town man Collects, deducts & Remits ~ 800 dealers

Probably possible
Say 61 dealers N.J. jobber at 40 which 30 would go to this — giving 130 small towns

2 Whole Counties do this in 3000 phones will be rented — 60 x 3 — Say 3.75 month — Total invested 219 000

Yearly Rental 135 000
get money back in 1.6 yrs
This is too much
$3.00 month is enough
then get money back in a little over 2 years

Work it up

All returned Dryclophon
& Edyphon Wrelors
saved - Very good
destroy Dryclophon
motors -

3¼ X 4 Dry plates
Thin glass 1/16
Lantern slide plates
Slow - 52 Cents Doz

glass alone about
40c Doz

Photo dry plates 3¼ × 4
Eastman 52 cents doz
Hammer Co 45 "
German Huff 29 "
250 Doz " 24 "

Cover Glasses
Belgium — 4.67 per glass
1108 in Case 4.50 per Case
2 To 4 Cases 4.50
5 Cases 6.75
10 Cases 6.50

Above reports
Duty paid prices
706 Nyc City

Dalley's Mixer (Lowest price)
Made 150 lbs loaves
New Revo Mixer
has double the Capacity
300 lbs - Requires
6 mixers for 140 000
net ok Blanks -

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Write Cohen
"get money" by
Foster & Giddings
see page
101 They have

not understood the
plan at all -

Ordering system on
phone to last
5 years on 1 order

get Kersey

Slides for new adolz weigh
45.5 grams / 24 would
weigh
Slide Holder weighs 40 grs
24 Slides Weigh 1092
grainmus

Folsom Want some coots
at Home nights
Neil wants extra work

Report says of 100 Comben
Dealers 54 showed
needle front - 42
Edison 1st - acc if correct

Loading powder only
in Marcelo & Reg Ledstock
Heat etc 500 lbs per day

Jonaccenda
Calliper 198 203 222
Weight 245 - 271 - 222 | 2d

Union flour
Calliper - 146 - 114 - 155
Weight 211 - 198 214

Some of Carter of Union pulled
out - Water struck & to mould

Tonawanda
Average Weight - 246 grms
Average Calliper 207.6

Union

Average Weight 207.6
Average Calliper 138.3

~~Union~~ Union
Greatest range
of Weight 16
Calliper 41

Tonawanda
Greatest range of
Weight 49
Calliper 24

Temporary Regulations

68 Sections

Ironsame (Leeches and)

Nickel 12½/1000

Soaked 3½% NaOH

48 hours

Lithium 40 grms Litho

See about providing
Jobbers making
Circulating Record
System that will
goes Check Teaches
how to Clean
returned Records &
Furnish a Cleaned
& Solution -

Consider sending
Each owner of Rhoo
a Orange a repeat
of Red Moon &
a Wet Jar
with Circular -
with Compliments

Daily made Blanks
of both Union &
Tonawanda wood
fibre dried at 212 & air
dried proceed 500
in packs NO HEAT both
very thick & no
Cohesion at all
Showing Room in
Natural wood
does act as binder
to same Extent -
Union 2nd held better
than Tonawanda
dry. altho Union
has con't the room
or does.

advertising stunt
Bill board | no lawn only frequent Parks
Tone test-
Lecture towns least prospective Lantern
~~Piano~~ Lecture comp
Halls with a Piano of
instrument player and
trackage = 2 Lecture combos
The 24 sheet Weather
Moving Pictures
Making announcement
Exhibition at fairs

Lamps vary in
height - in Daylite
Adjg Weights &
Head should be
an adjustment.

Guide ~

Will rent 12×25' boards
except in Cities like My
Chicago for
$20 to $8. month
which includes
Lighting & painting
twice once Each month
Each additional part
one dollar—

Can rent by month
ZC Barnes 550
W 57th St Ry

We monthly circularize by postCards once monthly Newark & Orange Starts Newark has 2090 owners to colour Cards sent Orange about 1200 Sales per year Co Newark owners

5.61 Records
2.24 gross profit.
Cost of circularizing
8% of the profit
or for year 18 cents per year for Each owner.

Orange
5.15 Records
2.06 gross profit
Costs 8% of the profit
or 16.48 yearly per owner

745 grams of Rosin in one gum for blank in 1 gallon - 1.64 lbs gal

See Article Boosting Ink page 89 -
Marvin L Pierce
Research + Promoting
Manager of Hoover
Suction Sweeper Co

Close list
Customers
purchase
1915 - 23

Balch

Mixture for Blanks

197 lbs wood flour
129 " Chalk
6 " Lampblack

Old amount of
Rosin Alcohol Mix
22 gals - Very bad
results in Blisters
& pull outs. 68% ok

25 gals 76.5%
27 gals 83%

½ Union ½ Tonawanda
flour dried to 4@5%
Water all Cases

Union Very Lucky
Makes Thin Blank
Tonawanda 50%
Thicker.

22 gals 35.2 lbs Rosin
.958%

25 Gall. 40 lbs Rosin
10.7%

27 gals 43.2 lbs
11.51% Rosin

27 gal

| | |
|---|---|
| Flour | 52.50 % |
| Chalk | 34.30 " |
| Rosin | 11 51 " |
| Lampblk | 1.59 " |
| | 99.90 |

see if there is a governor on a Reproducing Piano & if it can be Regulated —

Investigate Dance time of our records Vs Victor also if Our time too fast - Jundroff They want Regulated to slow them down

Oct 22 on hand
500 000 Union
215 000 Forwarded
30 000 Records 15000 lbs daily - Nearly 8 weeks supply Call at 6 weeks as output increasing

Payne Disc good one 12/1000 68-
Same pressure but in discharging spread it over 4 times the time between discharge

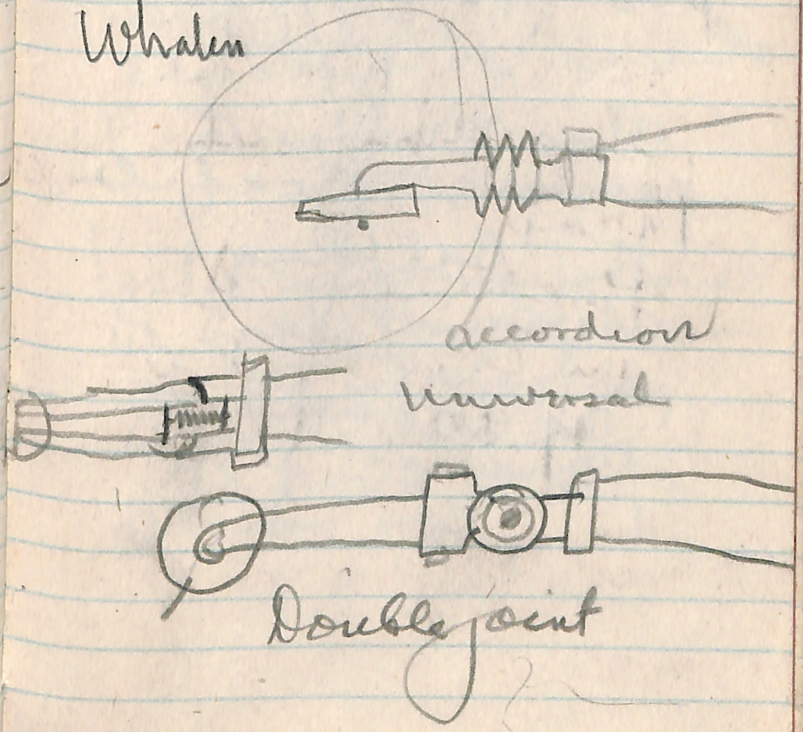
Or Slides

In discha test cells 300 amp
Current on 5 sec off 15 sec
until discharged

Bill board - Water
proof Cast iron
housing for a
Kinetoscope or talking Adv. machine
throw Moving
Pictures out
in Evening 8 to
9.30 -

In lecture show a
song then same
hummed by same
singer showing how
difficult it is to
use words.

Whales



Lubricants for Springs

Mix Stearine with various liquids till Right Consistency for Normal Conditions

Stearine — Straw Oil
" Kerosene
Pet Benzine
Xylol

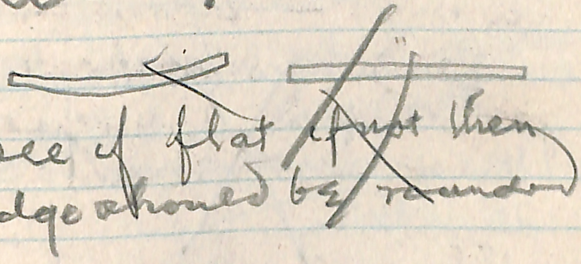
Also Mixed with powdered graphite

try Oil Bag +
Glycerine

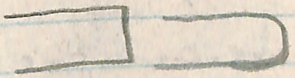
try Spermaceti +
a Ointment

Buff the spring then Disc graphite with Rolling brush

Look at Springs under Microscope



see if flat if not then Edge honed by round



Possibly Springs should be baked for 24 hours at 212 to slightly annoal possibly 48 hours to get Strain out

Patent the Copper Roofing —

Soapstone possibly Wemms Talcum - with oil -

How much is Lamb getting week

Raise Buchanan To

125 week.

Comput a sign in Activity box

That any reliable person desiring to give a small Dance party we will furnish the larger powerful Edison at Cost of

or entertainment Museum

Ask Payne how much it is to Liter in ford Cell also find out how to Liter in A4 cells

In ford Cell 40 grms 1st fill - permanent refill 30 grms Liter

A4 50 grms Liter.

2 1/2 Liters in 5 Cells

Get above Correct

Automatic Discharger

Charging 8 min
at 10 amp —
Rest 2 min
then one start
at 140 amp —
Then new cycle
& run chg
144 Start daily

go back to perusc
when we get
86% + find out
Viscosity of Varnish

Payne A test —
68 or 64 Gallon
Make 1st Run 16
+ get Curve Then put it
out Continuous Charge
10 amp for a month
+ then run Curves —
OK Customer + remake
Month by Month

Get total Dose phone
Sold to date from
start —

Kinney to go over
Manhadlad + New
England + record
ratios but phone Record
sale

then do it for all
Card index complete

Kinney to give to
Each dealer having
Card index towns
in US Census 2000 or
More with no E
dealer - by US Census

W Mram with Wabash
find out Maker of
furniture Carving
Machine Pantograph
Etc - See if we
have any one working

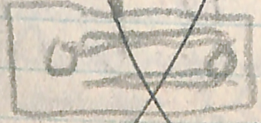
See if screw on top of
Desk cant be Ended
just at limit of movement
of Rapids instead of
Come against a stop
off for Left Diamond
off

Whalen -

Cannot a Yale lock
Key be used to Regulate
the Machine from a
Slot in top plate
is it handy now to
regulate with special
tool

Shennyo - Pu -
Nq L

See Payne re keeping the



Channel in No Mex

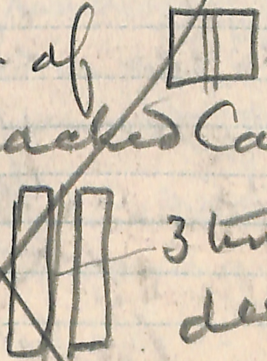
Ask Lanahan if he has found out if Bull Cow is plentiful or must we work it & when -

New England

| | | |
|---|---|---|
| Vidon | 45.4 | a/c |
| Columbia | 28.4 | |
| Edison | 21.1 | |
| Sonora | 13.2 | of Dallas |
| Brainard | 12.7 | |
| Vacation | 5.0 | |
| Strand | 3.8 | |
| Cheney | 3.6 | |

Others small -

Instead of under packed Cabinets use



3 times as deep with belt between -

Peroha Co - Very bright looking - clean cut well dressed - fair head - bright eyes - Structure favorable for salary right -

Dec 1 can put the Glide Machine inside Chippendale + propel on Space assigned by the Grille - + show photos in window

Orders for November up To 13th

| | |
|---|---|
| Flashes | 15.3% |
| Spcl Selected | 13.2 |
| General List | 22.1 |
| Catalog group | 49.3 |
| | 99.9 |

Try paper Collendoyed over a mandrel then form a cylinder hot glue, then dip in Ford Celluloid Sol dry + make Auckrola record

The Problem of Saya Bear is even better than glue

see P 1034 10th Chem Ind Journal Nov 2 1923

See Printer Ink Nov. 15/23
Marked article for salesman

Find out What Gladden Phillips is holding back from Jobbers + Dealers Can get our goods

See Nov 8/23 Printer Ink – Marked page
Hardy get Canada patents in the Case of Dumping Varnished goods

Manhart Do we extend + use section of RR track on our shovels
Traction is now used on our shovels saves 2 men

Lott see marked Copy Nov 12 Chemical + Metallurgical Engl
Buy these from American Felt Supply

Dont forget to mix MgO as an alkali for acid fumes + also thoroughly acidify by Petroleum naps alone

See Chem abstracts Nov 10
Marked Write Calk
firms and ask for
prices not included
in US for probe of
license to use -

Asfe Puffer if Co spends
out the pent Lus record
also

Have Schmuke make
some salad linseed
Oil also Chemex
Wood Oil - for
mixing with Mgo
Etc + Roll out
See if Tung Oil vs
Chemex wood oil

to Harden Chl Rubber
+ Tetrachl Nap + Mag
use some Reg Condensate
Resin with 6/4 + Para
+ Bake rough sheet
+ Roll out +

Condense some Varnish
+ Roll out - Also
Condense a Mass of
Resin Condensate +
powdered gum
+ Wet with 6/4 to
Minimum Sol. Condense
+ Roll out -

Mix Rosin 1/2 Condensed
1/2 + put in 6/4 to
Condensate + Para
+ use as Varnish

See if Condensate Room
will Combine with
Mgo to clear

---

ditto glue, Gelatin
ditto Casein
also other acid Rooms
Not + to what
Extent —

Payne put 2 cells
(5) out in Cab Exposed
+ 2 out Exposed
in a large box
containing Zeast of
Tons —

108 sqr ft to a "Square"
Manville sells 70B facing
to Jobbers Asbestos
at 2.10 a square

---

Barrett sells Tar Felts
at 1/2 that $1,00 Square

---

The Chlorinated Rubber
Mgo Resins
Trichloronaphthalene
Combustion Work
fine but Record
only good for 50 hrs
with Dope on 100
show. bad wear must
get better wood

Nov 1923 Zone

Hurrah and Record
+ now in Cartoon
with written slip -

---

Mixing on Rolls of
Crepe Raw Rubber
+ mgO - to lead like
sheets very promising
will try ZnO,
Lampblack etc +
make wider test
- Very much prints on
smooth disc -

ZnO to soft allho
11 ZnO to 1 Rubber
then gets very tacky
strength needs
Cotton flock

Nov 20 1923

Lampblack also
Chalk to be tried

After get Cast one
try flock in bail
Asbestos +
finally use Resins
mixed hot on roll
to Harden -
Rosin, Manilla Copal
etc -

---

Too much steam coming
out at Studio probably
needs Trap - Hardening
from Sides -

---

Get a resin or hard substance with a melting point around or less than 212° Fahr that dont affect Rubber + mix with the Rubber W.Q.O Compound - at its melting point - with + coal dust flock - for Ambaral Records Etc -

Possibly Resinates M.P less than 212 Candelarica - Carnauba But probably too high M.P - ourselves Copaiba + Cumarone as Neutral

Try Manilla Sandarach Kauri Copal Resin - Condamine Resin with or without Gilsonite

Jacobs dont give list of Ambarola Jobbers or dealers for purchase of dealers - We want more data -

Hart to learn Rolk to take free offer for who if we put on Malograph -

Cant a Concealed place be put on machine with gear adjust press against to Repay Can always find it

Traffic Manager Records from factory + Orders from Jobbers + also Circulating Copies

See cost of Radio Condenser for Chalk phone - and Condensers for our Quad Condensers Look Dry Weston Elec Condenser

See book room off Music room to accupied Went it for Chalk phone Expense -

Electric furnace $ 6.500
90 cents a pound
Capacity 900 lbs in at once
Melts 1200 hour - leave in furnace 300 lbs + 7 KW hours on all the time - Count shut down
Flux is Borax on Brass oxidize Less than 1/2 % on 250 @ 300 KW H per Ton melted (Brass) one Zn working

for chalk phone get from Hayes the circular Closed Coils W Elec type -

Also wind some more Coils

Coat Varnished
Blanks with done
Crude amount
Grafite Minimum
& print see of
PO & Bliders
disappeared

Inquire if we still [illegible] Rays polish Manuals after 1% Certain number of runs like we used did - notwithstanding we polish each time with dry brush

Start Experts on Varnish Changes to stop Blisters PO-

Payne may be upon Cells should have a lot of Extra outside surface to gas on when Cell is Charged instead of gassing inside on Contact with Plates Thus we have no A4

as long as its charging there is no gas but as soon as nearing Charge it gives gas Grow it to get metal outside it will shift the gassing to it as it has least resistance it will also tend to prevent Carrying over iron to the Naked Electrode, also not distilled Electrolyte

$1.00 we get 60 cents
allow 40 "
20 surplus

1.50 we get 90 Cents
allow 60
30 surplus

2.00 we get 1.20
allow 80
40 surplus

| | | | |
|---|---|---|---|
| 100 Records | 1.00 | 55% | 11.00 |
| 100 " | 1.50 | 33 | 9.90 |
| | 2.00 | 14 | 5.60 |
| Average 26 Cents | | | 26.50 |

Practically never 36 Cents

Nov 27 Discards
34.380 inspected

| | | |
|---|---|---|
| Spots | 3.097 | % |
| #1+2 Poor print | 6.085 | |
| Veneer + Pull Outs | 9.530 | |
| All others | 4.160 | -others |
| | 22.872 | |

Spots + Poor Prints + Pull O+B } 18.712 %

of the whole

Varnish blank losses same line -

| | | |
|---|---|---|
| Bad Varnish | 517 | |
| Chips | 463 | |
| Soft | 223 | |
| Scratches | 981 | |
| Chip Edge | 199 | |
| out of 2950 | 2382 | |

Glycerine 6% prevents condensing of Tung oil when boiled at 280° Cent. This to which is added Linoleate of lead to give 0.02% if this is again boiled to 280°C or added in first instance it will get thick + if thinned down by all turpentine dry to a smooth tough film -

Chem Abstrs Vol 17
p 3796 Nov 20/1923

~~Go over all the record of positions of all the instruments + number loaded 100 + then down -~~

See if Can get a the
Adolph Machine

Get price of an radio Condenser
Large enough for Chalk phone

Payne new Cells - Chge 24
hours at 3 amp - discharg
then 16 hours 4½ amp - Then
discharg at 6 amp
next 7 hours at 6 amp -
+20 on - for 3 Hours
Then Chg 15 amp 2 hours
40 min + Then discharg
Continuous 300 amp
till 16 mins - Then
give 5 sec discharg 300
rest 15 sec repeat
down to .7 Volt.

Burns had Nunn
done anything on that
Scheme

Dec 2 24 hours Urine
17.10 CC - .13 sugar
3 Tests same last ab
Schmenka No Sugar

Make Wax record with
most sensitive records
+ Track with sensitive
Reproducer at 1/4 speed
Then make Master
+ female polish
+ clean to Knock
down the Chalks
marks so Can polish
out the Chalks
Marks without
Knocking down hills
+ Lakes 2 hours

Could this be done it would be another great advance in using sensitive recorder If it shows signs Could grind diamond ball to fit groove & not make so narrow a line – Saphire will perhaps answer but diamond will be better Dec 5 1923

possibly light grafting to be good in keeping Experiment.

We should try Experiment of increasing 6/4 to see if the 9 minute Curing in press Count be reduced to 5 minutes or less perhaps wants more Para also. Also if graphite marks fine may need a minute & scale up Cooling Also by super Heating Steam Cured Cure quicker Dec 5 1923

Schmerke go ahead & see if we can purify. the Chems free of Rosin

Also to have Daily make oo & take precautions to get no rosin lumps Etc

Try our studio record not polishing out the chatter marks only on hills & Make wky

Would print a hare
Nail rats for surface

When we come out
with 12" record alter
Loading Machine to
make blanks & also
Varnishing Machine
for 3 Coats -

Of Felspar fine sent to
Colford mill man
95% was very fine
flour & 5% residue
also pretty fine -
think 85% of whole
would work quick
on Spodum undecomp'd
& 62 OK if machine has
Capacity

See if that Badge factory on
coast to Newark can't use
1/2 iron nickel or Copper

60 threads inch or 75 -
12 inch record special
Machine Double Speed 150 or 160
Very loud - get right
from society of Composers
on Royalty -

Use Rubber, Naphtha &
& Manilla Copal

ditto Naphtha & Manilla
Copal

Nap Manilla Copal flock
& Chalk or China Clay

New coating packing shows velvets OK after 15' Endoze treatment + 15' Ecdezone treatment Cost 50¢ more than Reg + a little more labor part on steel bands —

We use Dixon 0997 graphite in Dise dept purified by Schmuke + Crude and pressing

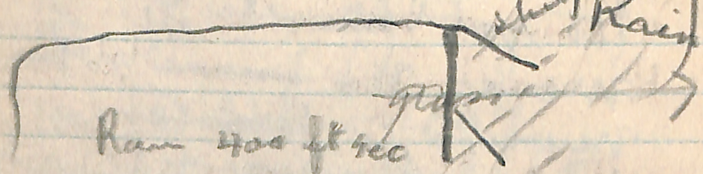
Neutron paper used before Amn Ass Screen on platinum —

Discovery of Mg brown Cousins of Current voltage Coated plates grown

½/1000 annealed Copper + nickel foil backed up by 3 coat blanket put foil on — Threw present from master to get female + make the found coby moved to Kaiser present process Can make a dozen in an hour

Cuttings of Copper .001 can be used for burning to Oxide for Ermany baking or for anodes Lucas Shingles

Dec 9/23 Told Wanley to fix a shield in front of glass shield & top & try it on rainy day

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Whalen Take the adolz machine apart & try it abroad & then look up B&L Take & get right lense

look up patents & make one of our own if Owner dont Come to terms -

Bring patents to House & go over them

Ask Wakely how many monkey tools he sends to Each jobber — see Total

---

Run a scale slowly on piano to highest Note on Most Sensitive Recorder accept highest note

Try paper horn also small horn different lengths see if God makes on persons just same —

Also see how can go with teeth on paper

---

Wehlau Picard
last notes on high
CCCC 4138
going down next
is 3906 2926
3686 2762
3480 2607
3284 2460
3100 2322
2191

Hand
Try pouring Alcohol on S.I. + Soda

Paint glass 2 or 3 Coats small slips of glass then after dry - treat with Alcohol in which small granules of following added - dissolved - The Na Salt of which is sol in Alcohol
Chlor. acid
Hydrosulfide
Hypophosphite
Lactate
Sulfocyanic

These should precip the Si + dissolve out soda

also soak HCl strong
+ then wash out
the Nail — + see if
it liable to plumt

perhaps a dose of
Silicate soda 1/8 thick
after fully Carbonated
the Carbonate soda
Can be percolated
out + print made

get Robinson reports
at Hume.

Hand Mix glue + Mgo
diff proportions + formulas
for Rise Van

Need to save 20
Bad due to Run out

Calliper Vernier to see
if uneven thickness

RO maybe due to
Change of angle of
Diamond loading
lever making weak +
loud as it passes up
+ down -

005 Celluloid
print with bag
pour plaster paste
in + keep on pressure
so as to force it
round till sets
mould dont cream

Get a flat record
then put paper under
one side to raise
one side up + see if
it makes it Run out

Dally Wood
1/2 doz blanks
soft on 1 side
hard on other
Varnish + print
also 6 Soft 1/4
+ hard 3/4
Var + print
see if Run out

Dally Varnish 12 Regs
blanks
2 Coats with Reg
Rosin Alcohol
dope we use on
blank - dry then
put 2 Coats
Condensite Varnish
on Bake Reg
Print + see if
good surface
+ also defects

Listen with ear
to smooth part
of a Reg record

Also a tracked record with horn + also Audion —

Perhaps silicate soda disc will draw as good can get louder record by changing Reproducer to adapted one possibly glue.

Mrs Silicate soda Cases of OK Inv Wgo — Then formula dyes also glue + 6/4

Dee if any answer from Turntable Wood — Chic other big Turntable Magazine Dead Shakespeare Cabinet Maker Magazine —

Medelt at the Geological Surv showing Alexandoodle

Walla Walla
get C flesch play
Ave over Cadony
out Oelwein

Hurrah! In playing
Nickel faced tomales
We find in some
Tunes very bad
Echos - Therefore
Echos are produced
in the Master
probably by
great difference in
temperature

In plating from
Grafting + first
Coating of Copper

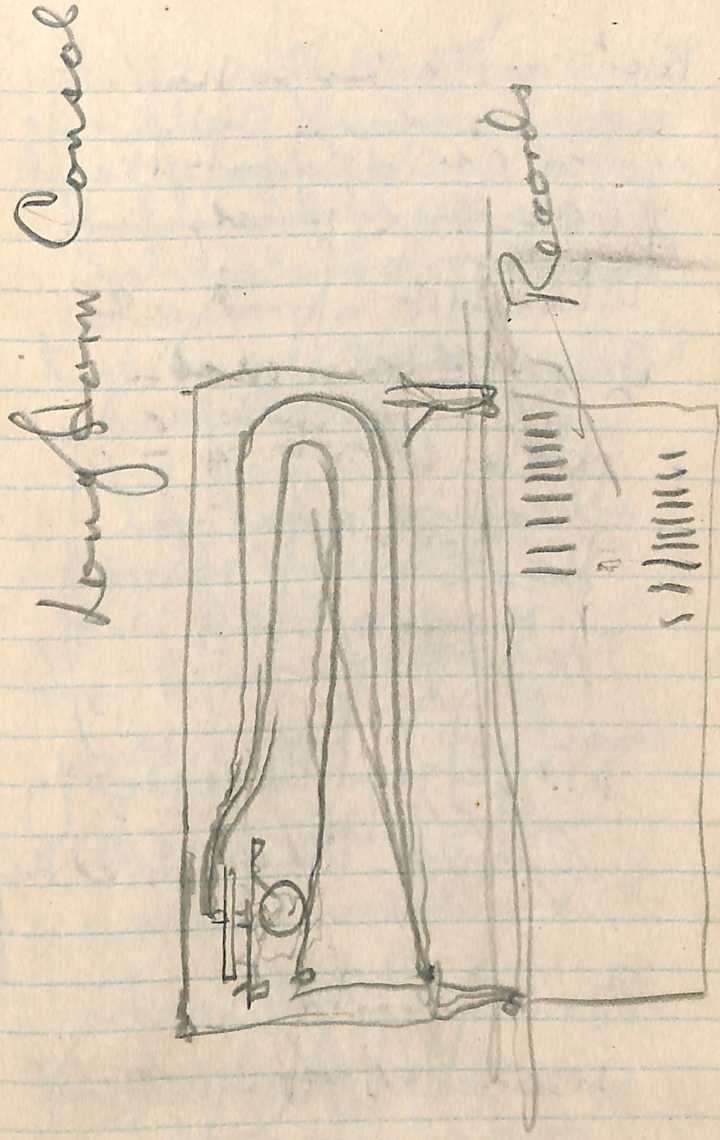
Get all variations
not affected by Soda

Get pay roll of
Musical phono
Sales Dept
names what they
do + salary

~~Wat for~~ Nat
+ orrent

Schmucke Campaign
to reduce ferric
hydroxide to ferrous
+ dissolve out all
in alkaline Sol-
not in Cabbage but
outside

Warm Truck one
with Bug Bait at
20 Rev + one at
80 + Dont track
all loud —
Drop work line —



Note a Dealer in NY
Has Insurance Agents
gives Commission - think
There are of Prudential
type - good idea

Negro dists good but
Collect weekly on
day they get Pay
otherwise don't get
This Dealer operates
in Negro Dist NY
City

Dragon Music
Shop Negro Sec NY

Bring up small
Scale to weigh food

Take up with Walsh Cost
of putting Reg tone leads
2 people in New England
Lower ones are getting
Quiet salaries & Expenses
Showing a Victor
using Landon & Shaw
Lecture —

Young & Walsh
In taking Orch
talking on Victrolas
Where one after
another instrument
takes Melod
Move up the
instrument taking

Melody & after
to Theodolite moor
back & moor
the other one
up & so on

---

Payne why not
Reduced after
Cells. Walls gone
bad Cap reduce
½ doz at once

Charles showed
Wernat Raise Runs
to 75 cs on yard

Get from Egerton
Dale price & Counsels
of A4 & A12 -
to find way of
grinding - duties -

Try Mahogany & other
woods Welding surface
of planed wood with
15% NaOH, then after
5 or 6 hours treat
with Bisulfide Carbon
to make a Viscose
surface then wash
out after dead treatment
the salts & let dry

Schmerke Test our Polarch for iron & Ferrous Hydrate

Ditto precipitate & wash thoroughly $Fe_2O_3$ H₂O prep & then dissolve as much as possible in 21% KOH free of Organic matter

Then add increments of Glacial acetic acid & get more easily solubilized at normal temp & at 130°F

Also 15 & also 10% KOH dissolves less

Schmerke to tests Paynes $Ni(OH)_2$ for Prof Hess also water he uses

See if Schmerke has elaborated the big Fight with Asbestos —

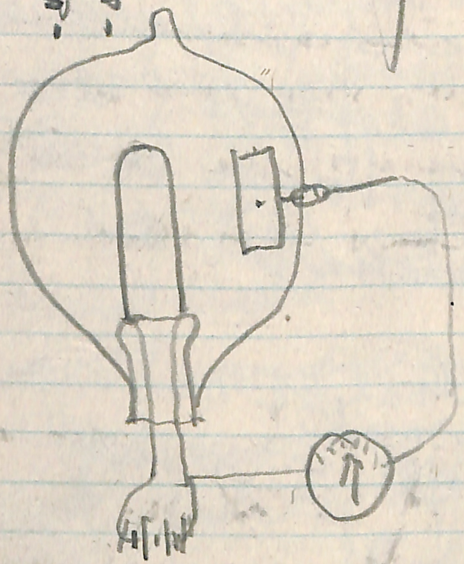
Electrolyze our 21 % & get iron out

---

How would a fine Rubber Sponge do as place of Valve in Ford Starter battery

Jany 1 1924

Corrugate Reg lamp bulb to double the absorption Then blackening of the effect will take | Times as long to get the same density



If my theory is OK that gas particle is thrown across to plate by intense Vibration of the fulgurent atoms

The putting bulb in Magnetic field or Close to Charged plate Elec or light X Ray Radium might cause a Current of Grade or State understood To 200 volt See could hear on phone with 2 stage amplifier

Paine to Connect Cans with Ni another with Ni also the Cage with Ni — also Fe + other with Can

Stream on Cu by Carb
Mist —

Vapor ammonia
after - use $CO_2$

new Lavabo Read

$NO_2$ weak
20 - 33% louder
24 - is loudest

Best

K Mowrman -
Harp - in one Key
as in nursery Rhyme
on 2 strings + 2
Chords - Change
the Key No Club
Change again Club

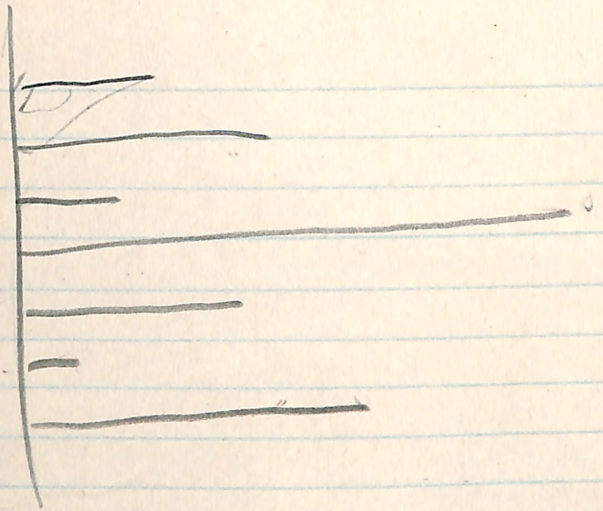
Must run it down
dont think Knabe
at Sounding board
area farm -

We substituted Piano
for Harp 20 ft east
hear st. then 15 ft
played louder could
just hear st NG for
replacing Harp -

Blues on Harp is
probably in Harp
previously in Records
but 3 Records
guess Blues on same
notes -

Payne's descby at 3/00 on
bad cell & Read Voltage
on Each cell Possibly
some reversal especially
on long test —

Get some neg iron ment
+ test with Bromine
for Fe Metallic.



34,000

1.5
2.0
4.0
7.5
---
95

Sept 10

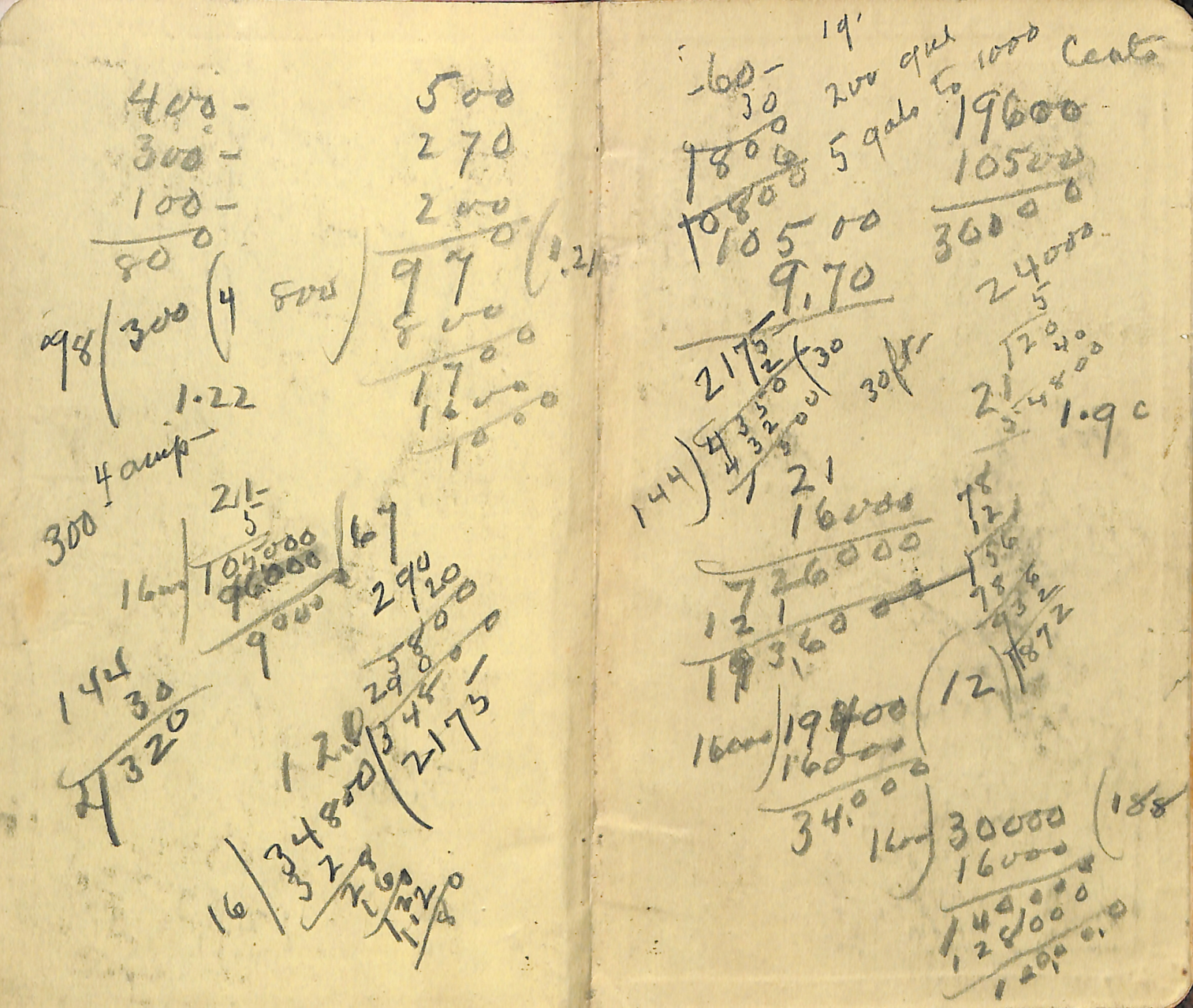
No 24 best yd for Violin blocks on Light Keels on Piano at 12 ft probably by walkat 25 ft or on side-

30-
4000
120000
9000
3000
2700
300
3

266
4250
1295
5545 lbs

266
24
1064
532
6384

365
33

8235
1095
12975

1295